

ACTUATOR CONTROL SYSTEM FOR HYDRAULIC DEVICES**ABSTRACT**

An apparatus and method for controlling an actuator system having an electrical actuator in hydraulic communication with a hydraulic actuator are described. The apparatus includes a controller module in communication with a source of electrical power and a transceiver. The transceiver is adapted for bi-directional wireless communication with a remote transceiver for the transfer of control data and feedback data. The controller module sends a control signal to the electrical actuator in response to control data received from the remote transceiver. The source of electrical power includes a hydraulic motor and an electrical generator to provide local electrical power from a hydraulic flow. Because the electrical power is generated locally and the control and feedback data are carried over the wireless link, no wires to remote locations are required.